

1 **CLAIMS**

2 What is claimed is:

3 1. A method for use in protecting information in forwarded
4 authentication messages, the method comprising:

5 encoding data using an encryption key;

6 encoding the encryption key using at least one other encryption key; and

7 encapsulating the resulting encoded data and the encoded encryption key in
8 a forwarded authentication message.

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10 2. The method as recited in Claim 1, further comprising encoding the
11 encryption key a plurality of times using a plurality of other encryption keys, and
12 further encapsulating the resulting encoded encryption keys in the authentication
13 message.

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15 3. The method as recited in Claim 1, wherein the authentication
16 message includes a Kerberos ticket.

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18 4. The method as recited in Claim 3, wherein the data includes
19 authorization data within the Kerberos ticket.

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21 5. The method as recited in Claim 1, further comprising:
22 providing the authentication message to a service;
23 providing the at least one other encryption key to the service;
24 causing the service to decode the encoded encryption key using the at least
25 one other encryption key; and

1 causing the service to decode the encoded data using the resulting decoded
2 encryption key.

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4 6. A computer-readable medium for use in protecting information in
5 forwarded authentication messages, the computer-readable medium having
6 computer-executable instructions for performing acts comprising:

7 using an encryption key to encode data;

8 using at least one other encryption key to encode the encryption key;

9 including the resulting encoded data in at least one authentication message;

10 and

11 including the encoded encryption key in at least one authentication
12 message.

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14 7. The computer-readable medium as recited in Claim 6, wherein
15 including the resulting encoded data in at least one authentication message and
16 including the encoded encryption key in at least one authentication message, cause
17 the resulting encoded data and the encoded encryption key to be included in the
18 same authentication message.

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20 8. The computer-readable medium as recited in Claim 6, further
21 comprising computer-executable instructions for encoding the encryption key a
22 plurality of times using a plurality of other encryption keys, and further
23 encapsulating the resulting encoded encryption keys in at least one authentication
24 message.

1 9. The computer-readable medium as recited in Claim 6, wherein the
2 authentication message includes a Kerberos ticket.

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4 10. The computer-readable medium as recited in Claim 9, wherein the
5 data includes authorization data within the Kerberos ticket.

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7 11. The computer-readable medium as recited in Claim 6, further
8 comprising computer-executable instructions for:

9 providing the authentication message to a service;

10 providing the at least one other encryption key to the service;

11 causing the service to decode the encoded encryption key using the at least
12 one other encryption key; and

13 causing the service to decode the encoded data using the resulting decoded
14 encryption key.

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16 12. An apparatus for use in protecting information in forwarded
17 authentication messages, the apparatus comprising logic configured to encode data
18 using an encryption key, encode the encryption key using at least one other
19 encryption key, and encapsulate the resulting encoded data and the encoded
20 encryption key in an authentication message.

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22 13. The apparatus as recited in Claim 12, wherein the logic is further
23 configured to encode the encryption key a plurality of times using a plurality of
24 other encryption keys, and further encapsulate the resulting encoded encryption
25 keys in the authentication message.

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2 14. The apparatus as recited in Claim 12, wherein the authentication
3 message includes a Kerberos ticket.
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5 15. The apparatus as recited in Claim 14, wherein the data includes
6 authorization data within the Kerberos ticket.
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8 16. The apparatus as recited in Claim 12, further comprising a least one
9 service operatively coupled to receive the authentication message from the logic,
10 and configured to decode the encoded encryption key using the at least one other
11 encryption key and decode the encoded data using the resulting decoded
12 encryption key.
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14 17. A computer-readable medium having stored thereon an
15 authentication message, comprising:
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16 encoded data; and

17 at least one encoded encryption key operatively associated with at least a
18 portion of the encoded data.
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